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PTO/SB/21 (09-04)

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)		Application Number	10/682,331
		Filing Date	October 8, 2003
		First Named Inventor	David L. SHELTON
		Art Unit	1647
		Examiner Name	J. Lockard
Total Number of Pages in This Submission	18 pages + 129 refs	Attorney Docket Number	514712000400

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement Supplemental (3 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO/SB/08a/b + copy (14 pages) References (129) Return Receipt Postcard
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	MORRISON & FOERSTER LLP (Customer No. 25226)		
Signature			
Printed name	Jie Zhou		
Date	August 29, 2006	Reg. No.	52,395

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Patent

Docket No. 514712000400

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
David L. SHELTON et al.

Serial No.: 10/682,331

Filing Date: October 8, 2003

For: METHODS FOR TREATING POST-  
SURGICAL PAIN BY ADMINISTERING  
A NERVE GROWTH FACTOR  
ANTAGONIST AND COMPOSITIONS  
CONTAINING THE SAME

Examiner: J. Lockard

Group Art Unit: 1647

**SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

This Supplemental Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
  - ☐ A fee is required. A check in the amount of \_\_\_ is enclosed.
  - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of \_\_\_ is enclosed.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist;

(iii) the information, protocols, results and the like reported by third parties are accurate or enabling;  
or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 514712000400.

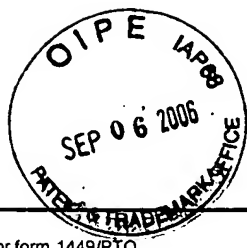
Dated: August 29, 2006

Respectfully submitted,

By 

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ALTERNATIVE TO PTO/SB/08 a/b (07-05)

<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/682,331	
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			First Named Inventor	David L. SHELTON	
			Art Unit	1647	
			Examiner Name	J. Lockard	
Sheet	1	of	7	Attorney Docket Number	514712000400

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1.	US-2002/0072543-A1	06-13-2002	Olesen et al.	
	2.	US-2002/0146416-A1	10-10-2002	Presta et al.	
	3.	US-2003/0008807-A1	01-09-2003	Levine et al.	
	4.	US-2003/0072746-A1	04-17-2003	Miller	
	5.	US-2003/0203923-A1	10-30-2003	Ross et al.	
	6.	US-2004/0038874-A1	02-26-2004	Omoigui	
	7.	US-2004/0071701-A1	04-15-2004	Delafoey et al.	
	8.	US-2004/0097562-A1	05-20-2004	Olesen et al.	
	9.	US-2004/0121959-A1	06-24-2004	Boone et al.	
	10.	US-2005/0074821-A1	04-07-2005	Wild, Jr. et al.	
	11.	US-2005/0222035-A1	10-06-2005	Boone et al.	
	12.	US-2005/0265994-A1	12-01-2005	Shelton et al.	
	13.	US-RE 38,103-E	04-29-2003	Guay et al.	
	14.	US-4,389,404	06-21-1983	Zhorov et al.	
	15.	US-5,656,435-A	08-12-1997	Nakahama et al.	
	16.	US-5,712,100-A	01-27-1998	Nakahama et al.	
	17.	US-5,843,942-A	12-01-1998	Breault et al.	
	18.	US-6,022,875-A	02-08-2000	Zimmer et al.	
	19.	US-6,027,927-A	02-22-2000	Presta et al.	
	20.	US-6,399,780-B1	06-04-2002	Hudkins	
	21.	US-6,492,380-B1	12-10-2002	Ross et al.	
	22.	US-6,548,062-B2	04-15-2003	Buchkovich et al.	
	23.	US-6,548,640-B1	04-15-2003	Winter	
	24.	US-6,649,605-B2	11-18-2003	Olesen et al.	
	25.	US-6,919,426-B2	07-19-2005	Boone et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	26.	EP-0 418 590-A1, B1	03-27-1991	Takeda Chemical Industries, Ltd.		
	27.	FR-2 807 660-A1	10-19-2001	Warner Lambert Co.	Translation of Abstract Only	
	28.	JP 03-163095-A	07-15-1991	Takeda Chemical Industries Ltd.	Translation of Abstract Only	
	29.	JP 05-076384-A	03-30-1993	Hitachi Ltd.	Translation of Abstract Only	
	30.	JP 06-317587-A	11-15-1994	Takeda Chemical Industries Ltd.	Translation of Abstract Only	
	31.	JP-63-295588-A	12-01-1988	Kyowa Hakko Kogyo KK	Translation of Abstract Only	
	32.	WO-90/10644-A1	09-20-1990	Lope Medicine AB		
	33.	WO-95/25795-A1	09-28-1995	Genentech, Inc.		
	34.	WO-98/19674-A2, A3	05-14-1998	Olesen et al.		
	35.	WO-01/52843-A1	07-26-2001	McGill University et al.		
	36.	WO-02/20513-A1	03-14-2002	Glaxo Group Limited		

Examiner Signature		Date Considered	
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pa- 1064427

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
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				Art Unit	1647
				Examiner Name	J. Lockard
Sheet	2	of	7	Attorney Docket Number	514712000400

37.	WO-02/102232-A2, A3	12-27-2002	The Regents of the University of California		
38.	WO-03/022261-A1	03-20-2003	Miller		
39.	WO-2004/026329-A1	04-01-2004	Amgen, Inc.		
40.	WO-2004/028448-A2, A3	04-08-2004	Miller		
41.	WO-2004/032852-A2, A3	04-22-2004	Rinat Neurosciences Corp.		
42.	WO-2005/019266-A2, A3	03-03-2005	Amgen, Inc.		
43.	WO-2005/111077-A2, A3	11-24-2005	Rinat Neuroscience Corp. et al.		

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	44.	Abbadie, C. et al. (June 24, 2003). "Impaired Neuropathic Pain Responses in Mice Lacking the Chemokine Receptor CCR2," <i>Proc. Natl. Acad. Sci. USA</i> 100(13):7947-7952.		
	45.	Aloe, L. et al. (1993). "The Synovium of Transgenic Arthritic Mice Expressing Human Tumor Necrosis Factor Contains a High Level of Nerve Growth Factor," <i>Growth Factors</i> 9(2):149-155.		
	46.	Aloe, L. et al. (Sept.-Oct. 1999). "Nerve Growth Factor in the Synovia of Patients with Rheumatoid Arthritis: Correlation with TNF- $\alpha$ and IL-1 $\beta$ and Possible Functional Significance," <i>Clin. Exp. Rheumatol.</i> 17(5):632-633.		
	47.	Altschul, S.F. et al. (1997). "Gapped BLAST and PSI-BLAST: A New Generation of Protein Database Search Programs," <i>Nucleic Acids Res.</i> 25(17):3389-3402.		
	48.	American Chemical Society (1987-1991). <u>Chemical Abstracts, 12th Collective Index, Chemical Substances, Volumes 106-115, page 34237CS, column 3, lines 5-7.</u>		
	49.	American Chemical Society (1987-1991). <u>Chemical Abstracts, 12th Collective Index, Chemical Substances, Volumes 106-115, page 34237CS, column 3, lines 55-60.</u>		
	50.	American Chemical Society (1987-1991). <u>Chemical Abstracts, 12th Collective Index, Chemical Substances, Volumes 106-115, page 34237CS, column 3, lines 66-69.</u>		
	51.	American Chemical Society (1987-1991). <u>Chemical Abstracts, 12th Collective Index, Chemical Substances, Volumes 106-115, page 34238CS, column 1, lines 41-44.</u>		
	52.	American Chemical Society (1987-1991). <u>Chemical Abstracts, 12th Collective Index, Chemical Substances, Volumes 106-115, page 34238CS, column 2, lines 25-27.</u>		
	53.	American Chemical Society (1987-1991). <u>Chemical Abstracts, 12th Collective Index, Chemical Substances, Volumes 106-115, page 34238CS, column 2, lines 32-33.</u>		
	54.	American Chemical Society (1987-1991). <u>Chemical Abstracts, 12th Collective Index, Chemical Substances, Volumes 106-115, page 34239CS, column 3, lines 48-50.</u>		
	55.	American Chemical Society (1987-1991). <u>Chemical Abstracts, 12th Collective Index, Chemical Substances, Volumes 106-115, page 34239CS, column 3, lines 52-53.</u>		
	56.	Barbas III, C.F. et al. (April 1994). "In vitro Evolution of a Neutralizing Human Antibody to Human Immunodeficiency Virus Type 1 to Enhance Affinity and Broaden Strain Cross-Reactivity," <i>Proc. Natl. Acad. Sci. USA</i> 91:3809-3813.		
	57.	Barbas III, C.F. et al. (2001). "Vector pComb3X, Figure 2.2" In "Phage-Display Vectors" Chapter 2 In <u>Phage Display: A Laboratory Manual</u> , Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY, pp. 2.9-2.13.		

Examiner Signature		Date Considered	
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				First Named Inventor	David L. SHELTON
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Sheet	3	of	7	Attorney Docket Number	514712000400

58.	Bellamy, N. (May 1989). "Pain Assessment in Osteoarthritis: Experience With the WOMAC Osteoarthritis Index," <i>Semin. Arthritis Rheum.</i> 18(4 Suppl. 2):14-17.
59.	Bellamy, N. et al. (December 1988). "Validation Study of WOMAC: A Health Status Instrument for Measuring Clinically Important Patient Relevant Outcomes to Antirheumatic Drug Therapy in Patients with Osteoarthritis of the Hip or Knee," <i>J. Rheumatol.</i> 15(12):1833-1840.
60.	Bibel, M. et al. (December 1, 2000). "Neurotrophins: Key Regulators of Cell Fate and Cell Shape in the Vertebrate Nervous System," <i>Genes Dev.</i> 14(23):2919-2937.
61.	Brennan, T.J. (1999). "Postoperative Models of Nociception," <i>ILAR Journal</i> 40(3):129-136.
62.	Brennan, T.J. et al. (2005). "Mechanisms of Incisional Pain," <i>Anesthesiology Clin. N. Am.</i> 23:1-20.
63.	Brosseau, L. et al. (2003). "Thermotherapy for Treatment of Osteoarthritis," <i>The Cochrane Database of Systematic Reviews</i> Issue 4, Art No. CD004522, pp. 1-20.
64.	Chaplan, S.R. et al. (1994). "Quantitative Assessment of Tactile Allodynia in the Rat Paw," <i>J. Neuroscience Methods</i> 53:55-63.
65.	Chen, Y. et al. (November 5, 1999). "Selection and Analysis of an Optimized Anti-VEGF Antibody: Crystal Structure of an Affinity-Matured Fab in Complex with Antigen," <i>J. Mol. Biol.</i> 293(4):865-881.
66.	Choi, S-S. et al. (2003). "Antinociceptive Mechanisms of Orally Administered Decursinol in the Mouse," <i>Life Sciences</i> 73(4):471-485.
67.	Clohisy, D.R. et al. (2003). "Skeletal Complications of Malignancy: Bone Cancer Pain," <i>Clinical Orthopaedics and Related Research</i> 415S:S279-S288.
68.	Corey, E. et al. (June 1, 2002). "Establishment and Characterization of Osseous Prostate Cancer Models: Intra-Tibial Injection of Human Prostate Cancer Cells," <i>Prostate</i> 52(1):20-33.
69.	Cromartie, W.J. et al. (1977). "Arthritis in Rats After Systemic Injection of Streptococcal Cells or Cell Walls," <i>The Journal of Experimental Medicine</i> 146:1585-1602.
70.	Dicou, E. et al. (September 1993). "Natural Autoantibodies Against the Nerve Growth Factor in Autoimmune Diseases," <i>J. Neuroimmunol.</i> 47(2):159-167.
71.	Dicou, E. et al. (December 13, 1993). "Increased Frequency of NGF in sera of Rheumatoid Arthritis and Systemic Lupus Erythematosus Patients," <i>NeuroReport</i> 5(3):321-324.
72.	Dicou, E. et al. (January 1994). "Natural Autoantibodies Against the Nerve Growth Factor in Autoimmune Diseases," <i>J. Neuroimmunol.</i> 49(1):224 (Erratum).
73.	Dicou, E. et al. (1996). "Nerve Growth Factor (NGF) Autoantibodies and NGF in the Synovial Fluid: Implications in Spondylarthropathies," <i>Autoimmunity</i> 24(1):1-9.
74.	Dicou, E. et al. (May 1997). "Evidence That Natural Autoantibodies Against the Nerve Growth Factor (NGF) May Be Potential Carriers of NGF," <i>J. Neuroimmunol.</i> 75:200-203.
75.	Edoff, K. et al. (February 2000). "Retrograde Tracing and Neuropeptide Immunohistochemistry of Sensory Neurones Projecting to the Cartilaginous Distal Femoral Epiphysis of Young Rats," <i>Cell &amp; Tissue Research</i> 299(2):193-200.
76.	Fawcett, D.W. (1986). "Bone" Chapter 8 <i>In A Textbook of Histology</i> , Dreibelbis, D. ed., Eleventh Edition, W.B. Saunders Co.: Philadelphia, PA, pp. 211-216 and Table of Contents pp. v-xi.
77.	Fischer, H.P. et al. (June 1998). "A Possible Role for Saliva as a Diagnostic Fluid in Patients with Chronic Pain," <i>Semin. Arthritis Rheum.</i> 27(6):348-359.
78.	Fjell, J. et al. (February 1999). "In Vivo NGF Deprivation Reduces SNS Expression and TTX-R Sodium Currents in IB4-Negative DRG Neurons," <i>J. Neurophysiol.</i> 81(2):803-810.
79.	García-Castellano, J.M. et al. (2000). "Is Bone a Target-Tissue for the Nervous System? New Advances on the Understanding of Their Interactions," <i>Iowa Orthop. J.</i> 20:49-58.
80.	Garrett, N.E. et al. (July 11, 1997). "Effect of Capsaicin on Substance P and Nerve Growth Factor in Adjuvant Arthritic Rats," <i>Neurosci. Lett.</i> 230:5-8.
81.	Gavilondo, J.V. et al. (July 2000). "Antibody Engineering at the Millennium," <i>BioTechniques</i> 29:128-145.

Examiner Signature		Date Considered	
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82.	GenBank Accession No. CAA09181, created December 2, 1998, located at < <a href="http://www.ncbi.nlm.nih.gov">http://www.ncbi.nlm.nih.gov</a> >, last visited October 19, 2005, two pages.
83.	GenBank Accession No. P01859, created July 21, 1986, located at < <a href="http://www.ncbi.nlm.nih.gov">http://www.ncbi.nlm.nih.gov</a> >, last visited October 19, 2005, four pages.
84.	Greene, L.A. et al. (July 1976). "Establishment of a Noradrenergic Clonal Line of Rat Adrenal Pheochromocytoma Cells Which Respond to Nerve Growth Factor," <i>Proc. Nat. Acad. Sci. USA</i> 73(7):2424-2428.
85.	Gwak, Y.S. et al. (January 16, 2003). "Attenuation of Mechanical Hyperalgesia Following Spinal Cord Injury by Administration of Antibodies to Nerve Growth Factor in the Rat," <i>Neuroscience Letters</i> 33(2):117-120.
86.	Halliday, D.A. et al. (June 1998). "Elevated Nerve Growth Factor Levels in the Synovial Fluid of Patients With Inflammatory Joint Disease," <i>Neurochem. Res.</i> 23(6):919-922.
87.	Hasselström, J. et al. (July 1996). "Disposition and Analgesic Effects of Systemic Morphine, Morphine-6-glucuronide and Normorphine in Rat," <i>Pharmacology &amp; Toxicology</i> 79(1):40-46.
88.	Haynes, M.K. et al. (December 2002). "Phenotypic Characterization of Inflammatory Cells From Osteoarthritic Synovium and Synovial Fluids," <i>Clin. Immunol.</i> 105(3):315-325.
89.	Hill, R. (July 2000). "NK <sub>1</sub> (Substance P) Receptor Antagonists - Why Are They Not Analgesic in Humans?" <i>Trends Pharmacol. Sci.</i> 21(7):244-246.
90.	Honoré, P. et al. (2000). "Cellular and Neurochemical Remodeling of the Spinal Cord in Bone Cancer Pain," <i>Prog. Brain Res.</i> 129:389-397.
91.	Honoré, P. et al. (May 2000). "Osteoprotegerin Blocks Bone Cancer-Induced Skeletal Destruction, Skeletal Pain and Pain-Related Neurochemical Reorganization of the Spinal Cord," <i>Nat. Med.</i> 6(5):521-528.
92.	Honoré, P. et al. (June 23, 2000). "Murine Models of Inflammatory, Neuropathic and Cancer Pain Each Generates a Unique Set of Neurochemical Changes in the Spinal Cord and Sensory Neurons," <i>Neuroscience</i> 98(3):585-598.
93.	Honoré, P. et al. (2006). "Interleukin-1 $\alpha$ Gene-Deficient Mice Show Reduced Nociceptive Sensitivity in Models of Inflammatory and Neuropathic Pain but not Post-Operative Pain," <i>Behavioural Brain Research</i> 167:355-364.
94.	Huang, E.J. et al. (2001). "Neurotrophins: Roles in Neuronal Development and Function," <i>Annu. Rev. Neurosci.</i> 24:677-736.
95.	Hunt, S.P. et al. (August 13, 1987). "Induction of c-fos-like Protein in Spinal Cord Neurons Following Sensory Stimulation," <i>Nature</i> 328:632-634.
96.	Huse, W.D. et al. (1993). "Increased Antibody Affinity and Specificity by Codon-Based Mutagenesis," <i>Intern. Rev. Immunol.</i> 10:129-137.
97.	Iadarola, M.J. et al. (1988). "Differential Activation of Spinal Cord Dynorphin and Enkephalin Neurons During Hyperalgesia: Evidence Using cDNA Hybridization," <i>Brain Res.</i> 455(2):205-212.
98.	International Search Report for PCT Application No. PCT/US03/32113, filed October 8, 2003, mailed April 10, 2006, four pages.
99.	International Search Report for PCT Application No. PCT/US04/05162 filed February 19, 2004, mailed March 28, 2006, four pages.
100.	International Search Report for PCT Application No. PCT/US2005/011786, filed April 7, 2005, mailed February 20, 2006, five pages.
101.	Jongen, J.L.M. et al. (2002). "Neurotrophic Factors and Cancer Pain: The Expression of NGF, GDNF and BDNF by the Murine Osteolytic Sarcoma Cell Line 2472 in vitro and in vivo and Their Potential Involvement in Bone Cancer Pain," <i>32nd Annual Meeting of the Society for Neuroscience</i> , Orlando, FL, (November 2-7, 2002), Abstract 52.2, located at < <a href="http://sfn.scholarone.com/iten2002/main.html">http://sfn.scholarone.com/iten2002/main.html</a> >, last visited March 2, 2006, two pages.
102.	Kasai, M. et al. (1999). "Endogenous Nerve Growth Factor Increases the Sensitivity to Bradykinin in Small Dorsal Root Ganglion Neurons of Adjuvant Inflamed Rats," <i>Neuroscience Letters</i> 272(1):41-44.

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				Examiner Name	J. Lockard
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103.	Kazemier, B. et al. (1996). "Determination of Active Single Chain Antibody Concentrations in Crude Periplasmic Fractions," <i>J. Immunol. Methods</i> 194(2):201-209.
104.	Lewin, G.R. et al. (May 1993). "Nerve Growth Factor-Induced Hyperalgesia in the Neonatal and Adult Rat," <i>J. Neurosci.</i> 13(5):2136-2148.
105.	Luger, N.M. et al. (May 15, 2001). "Osteoprotegerin Diminishes Advanced Bone Cancer Pain," <i>Cancer Res.</i> 61:4038-4047.
106.	Luger, N.M. et al. (2002). "Efficacy of Systemic Morphine Suggests a Fundamental Difference in the Mechanisms that Generate Bone Cancer vs. Inflammatory Pain," <i>Pain</i> 99:397-406.
107.	Mach, D.B. et al. (2002). "Origins of Skeletal Pain: Sensory and Sympathetic Innervation of the Mouse Femur," <i>Neuroscience</i> 113(1):155-166.
108.	Mantyh, P.W. et al. (March 2002). "Molecular Mechanisms of Cancer Pain," <i>Nature Reviews Cancer</i> 2(3):201-209.
109.	McCarthy, B.G. et al. (October 1995). "Cutaneous Innervation in Sensory Neuropathies," <i>Neurology</i> 45(10):1848-1855.
110.	McDonald, N.Q. et al. (December 5, 1991). "New Protein Fold Revealed by a 2.3-Å Resolution Crystal Structure of Nerve Growth Factor," <i>Nature</i> 354:411-414.
111.	McMahon, S.B. (August 1995). "The Biological Effects of Endogenous Nerve Growth Factor on Adult Sensory Neurons Revealed by a trkA-IgG Fusion Molecule," <i>Nature Medicine</i> 1(8):774-780.
112.	McMahon, S.B. (March 29, 1996). "NGF as a Mediator of Inflammatory Pain," <i>Phil. Trans. R. Soc. Land. B</i> 351(1338):431-440.
113.	Molander, C. et al. (June 8, 1987). "Spinal Cord Projections From Hindlimb Muscle Nerves in the Rat Studied by Transganglionic Transport of Horseradish Peroxidase, Wheat Germ Agglutinin Conjugated Horseradish Peroxidase, or Horseradish Peroxidase With Dimethylsulfoxide," <i>J. Comp. Neurol.</i> 260(2):246-255.
114.	Muller, Y.A. et al. (September 15, 1998). "VEGF and the Fab Fragment of a Humanized Neutralizing Antibody: Crystal Structure of the Complex at 2.4 Å Resolution and Mutational Analysis of the Interface," <i>Structure</i> 6(9):1153-1167.
115.	Muyldermans, S. (2001). "Single Domain Camel Antibodies: Current Status," <i>Reviews in Molecular Biotechnology</i> 74:277-302.
116.	Myers, R.R. et al. (September 1996). "Reduced Hyperalgesia in Nerve-Injured WLD Mice: Relationship to Nerve Fiber Phagocytosis, Axonal Degeneration, and Regeneration in Normal Mice," <i>Exp. Neurol.</i> 141(1):94-101.
117.	Niissalo, S. et al. (June 2002). "Neuropeptides in Experimental and Degenerative Arthritis," <i>Ann. N.Y. Acad. Sci.</i> 966:384-399.
118.	Noguchi, K. et al. (1991). "Dynorphin Expression and Fos-like Immunoreactivity Following Inflammation Induced Hyperalgesia are Colocalized in Spinal Cord Neurons," <i>Molecular Brain Research</i> 10(3):227-233.
119.	Peter, E.A. et al. (October 30, 2001). "Ibuprofen Versus Acetaminophen with Codeine for the Relief of Perineal Pain after Childbirth: A Randomized Controlled Trial," <i>CMAJ</i> 165(9):1203-1209.
120.	Pezet, S. et al. (February 1, 2001). "Differential Regulation of NGF Receptors in Primary Sensory Neurons by Adjuvant-Induced Arthritis in the Rat," <i>Pain</i> 90(1-2):113-125.
121.	Pozza, M. et al. (May 2000). "A Histochemical Study of the Rheumatoid Synovium: Focus on Nitric Oxide, Nerve Growth Factor High Affinity Receptor, and Innervation," <i>J. Rheumatol.</i> 27(5):1121-1127.
122.	Puigdemívol-Sánchez, A. et al. (1998). "Sciatic and Femoral Nerve Sensory Neurons Occupy Different Regions of the L4 Dorsal Root Ganglion in the Adult Rat," <i>Neurosci. Lett.</i> 251(3):169-172.
123.	Puigdemívol-Sánchez, A. et al. (October 1, 2000). "Contribution of Femoral and Proximal Sciatic Nerve Branches to the Sensory Innervation of Hindlimb Digits in the Rat," <i>The Anatomical Record</i> 260(2):180-188.

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124.	Rader, C. et al. (2001). "Antibody Engineering" Chapter 13 <i>In Phage Display, A Laboratory Manual</i> , Barbas III, C.F. et al. eds., Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY, pp. 13.1-13.15.
125.	Rinat Neurosciences. (Date Unknown). "RN624 A New Approach to Pain Therapy," located at < <a href="http://64.233.161.104/search?q=cache:nYXEK1HDbdIJ:www.rinatneuro.com/products/RN6...">http://64.233.161.104/search?q=cache:nYXEK1HDbdIJ:www.rinatneuro.com/products/RN6...</a> >, last visited July 5, 2006, five pages.
126.	Rosok, M.J. et al. (September 13, 1996). "A Combinatorial Library Strategy for the Rapid Humanization of Anticarcinoma BR96 Fab," <i>The Journal of Biological Chemistry</i> 271(37):22611-22618.
127.	Rudikoff, S. et al. (March 1982). "Single Amino Acid Substitution Altering Antigen-Binding Specificity," <i>Proc. Natl. Acad. Sci. USA</i> 79:1979-1983.
128.	Sabino, M.A.C. et al. (December 15, 2002). "Simultaneous Reduction in Cancer Pain, Bone Destruction, and Tumor Growth by Selective Inhibition of Cyclooxygenase-2," <i>Cancer Res.</i> 62:7343-7349.
129.	Sabino, M.A.C. et al. (May 1, 2003). "Different Tumors in Bone Each Give Rise to a Distinct Pattern of Skeletal Destruction, Bone Cancer-Related Pain Behaviors and Neurochemical Changes in the Central Nervous System," <i>International Journal of Cancer</i> 104(5):550-558.
130.	Safieh-Garabedian, B. et al. (August 1995). "Contribution of Interleukin-1 $\beta$ to the Inflammation-Induced Increase in Nerve Growth Factor Levels and Inflammatory Hyperalgesia," <i>Br. J. Pharmacol.</i> 115(7):1265-1275.
131.	Schwei, M.J. et al. (December 15, 1999). "Neurochemical and Cellular Reorganization of the Spinal Cord in a Murine Model of Bone Cancer Pain," <i>J. Neuroscience</i> 19(24):10886-10897.
132.	Shelton, D.L. et al. (December 1984). "Expression of the $\beta$ -nerve Growth Factor Gene Correlates with the Density of Sympathetic Innervation in Effector Organs," <i>Proc. Natl. Acad. Sci. USA</i> 81:7951-7955.
133.	Shelton, D.L. et al. (1995). "Neurotrophins and Neurotrophin Antagonists as Potential Therapeutics," <i>Restorative Neurology and Neuroscience</i> 8(1-2):99-100.
134.	Shu, X. et al. (1999). "Nerve Growth Factor Acutely Sensitizes the Response of Adult Rat Sensory Neurons to Capsaicin," <i>Neurosci. Lett.</i> 274(3):159-162.
135.	Stedman, T.L. (1982). <i>Illustrated Stedman's Medical Dictionary</i> , Williams & Wilkins: Baltimore, MD, 24th Edition, pg. 670.
136.	Szekanecz, Z. et al. (June 2000). "Temporal Expression of Inflammatory Cytokines and Chemokines in Rat Adjuvant-Induced Arthritis," <i>Arthritis &amp; Rheumatism</i> 43(6):1266-1277.
137.	Tang, Y. et al. (September 24, 1999). "Use of a Peptide Mimotope to Guide the Humanization of MRK-16, an Anti-P-Glycoprotein Monoclonal Antibody," <i>The Journal of Biological Chemistry</i> 274(39):27371-27378.
138.	Thompson, J.E. et al. (1999). "A Fully Human Antibody Neutralising Biologically Active Human TGF $\beta$ 2 for use in Therapy," <i>J. Immunol. Methods</i> 227:17-29.
139.	Tofaris, G.K. et al. (August 1, 2002). "Denervated Schwann Cells Attract Macrophages by Secretion of Leukemia Inhibitory Factor (LIF) and Monocyte Chemoattractant Protein-1 in a Process Regulated by Interleukin-6 and LIF," <i>J. Neurosci.</i> 22(15):6696-6703.
140.	Tsujino, H. et al. (February 2000). "Activating Transcription Factor 3 (ATF3) Induction by Axotomy in Sensory and Motoneurons: A Novel Neuronal Marker of Nerve Injury," <i>Molecular &amp; Cellular Neuroscience</i> 15(2):170-182.
141.	Vajdos, F.F. et al. (2002). "Comprehensive Functional Maps of the Antigen-Binding Site of an Anti-ErbB2 Antibody Obtained with Shotgun Scanning Mutagenesis," <i>J. Mol. Biol.</i> 320:415-428.
142.	Vanderah, T.W. et al. (2001). "Mechanisms of Opioid-Induced Pain and Antinociceptive Tolerance: Descending Facilitation and Spinal Dynorphin," <i>Pain</i> 92:5-9.
143.	Vigneti, E. et al. (1993). "Production and Characterization of a Monoclonal Antibody Against Nerve Growth Factor (NGF) Which Recognizes Rodent and Human NGF," <i>Year Immunol.</i> 7:146-149.

Examiner Signature		Date Considered	
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144.	Villanueva, L. (December 2000). "Is There a Gap Between Preclinical and Clinical Studies of Analgesia?" <i>Trends Pharmacol. Sci.</i> 21(12):461-465.	
145.	Wiesmann, C. et al. (September 9, 1999). "Crystal Structure of Nerve Growth Factor in Complex with the Ligand-Binding Domain of the TrkA Receptor," <i>Nature</i> 401(6749):184-188.	
146.	Winter, C.A. et al. (June 1966). "Treatment of Adjuvant Arthritis in Rats with Anti-inflammatory Drugs," <i>Arthritis Rheum.</i> 9(3):394-404.	
147.	Woolf, C.J. et al. (1994). "Nerve Growth Factor Contributes to the Generation of Inflammatory Sensory Hypersensitivity," <i>Neuroscience</i> 62(2):327-331.	
148.	Wu, H. et al. (November 19, 1999). "Humanization of a Murine Monoclonal Antibody by Simultaneous Optimization of Framework and CDR Residues," <i>J. Mol. Biol.</i> 294(1):151-162.	
149.	Wu, S.M. et al. (1998). "Oxidized $\alpha_2$ -Macroglobulin ( $\alpha_2$ M) Differentially Regulates Receptor Binding by Cytokines/Growth Factors: Implications for Tissue Injury and Repair Mechanisms in Inflammation," <i>The Journal of Immunology</i> 161:4356-4365.	
150.	Wu, Z. et al. (December 2000). "Immunohistochemical Study of NGF and its Receptors in the Synovial Membrane of the Ankle Joint of Adjuvant-Induced Arthritic Rats," <i>Histochem. Cell Biol.</i> 114(6):453-459.	
151.	Yelton, D.E. et al. (1995). "Affinity Maturation of the BR96 Anti-Carcinoma Antibody by Codon-Based Mutagenesis," <i>The Journal of Immunology</i> 155:1994-2004.	
152.	Yu, Y.C. et al. (2002). "Two Variables That can be Used as Pain Indices in Experimental Animal Models of Arthritis," <i>Journal of Neuroscience Methods</i> 115:107-113.	
153.	Zahn, P.K. et al. (September-October 2002). "Mechanisms for Pain Caused by Incisions," <i>Regional Anesthesia and Pain Medicine</i> 27(5):514-516.	
154.	Zahn, P.K. et al. (April 2004). "Effect of Blockade of Nerve Growth Factor and Tumor Necrosis Factor on Pain Behaviors After Plantar Incision," <i>The Journal of Pain</i> 5(3):157-163.	

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